

User's Manual



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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance. (Example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.



CE Mark Warning



This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual for PLANET 5 Mega-Pixel PoE Box IP Camera Model: ICA-2500 Rev: 1.0 (July. 2012) Part No. EM-ICA2500_v1.0



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Chapter 1. Product Introduction

1.1. Package Contents

The following items should be contained in the package:

- ICA-2500 / 5 Mega-Pixel PoE Box IP Camera x 1
- Power Adapter x 1
- Camera Mount Kit x 1
- User's Manual CD x 1
- Quick Installation Guide x 1
- Screw Packet x 1
- A/V cable x 1

NOTE: 1. If any of the above items are missing, please contact your dealer immediately.

2. Using the power supply that is not the one included in Internet Camera packet will cause damage and void the warranty for this product.

1.2. Product Description

High resolution, professional day and night network camera

The PLANET ICA-2500 (or "Internet Camera" in the following section) Network Camera is a high resolution camera for round-the-clock surveillance over IP networks. This camera supports H.264, MPEG-4, and JPEG compression formats and delivers excellent picture quality in 5 Mega-Pixel resolutions at 15 frames per second (fps). Incorporating the Mega-Pixel Vari-Focal Lens from TAMRON, which is specially designed for surveillance applications, this camera provides high quality images under all lighting conditions, which makes it an ideal solution for indoor/outdoor applications, e.g. surveillance of buildings, roads, parking areas, garages, railway stations and airports.



5 Mega-Pixel Resolution



Day & Night functionality

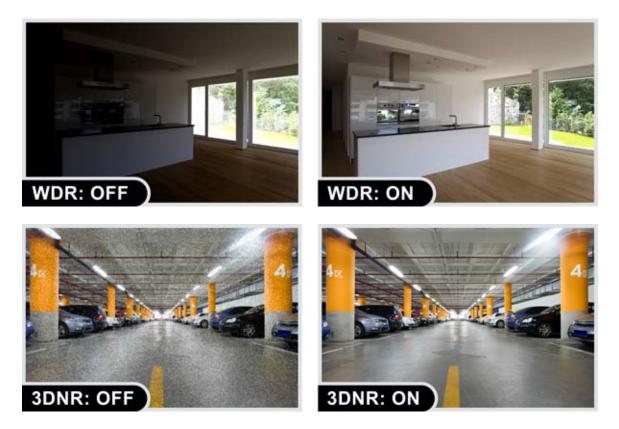
The ICA-2500 features an automatic, removable infrared-cut filter, which enables the camera to provide color video when there is sufficient light, and black/white video in dark conditions. The camera is able to maintain clear images 24 hours a day.



Exceptional Image quality

Together with powerful image processing attributes like Wide Dynamic Range and 3-Dimension Noise Reduction technology, the camera is able to filter the intense backlight surrounding a subject and remove noises from video signal. The result is that an extremely clear and exquisite picture quality can be produced even under any challenging lighting conditions.





Advanced event management

The ICA-2500 also supports a number of advanced features that give the camera increased flexibility and capabilities, including Auto-iris for improve the image quality to avoid over exposure, AV out for perform the two-way audio function, microSD/SDHC card slot for local storage, RS485 for connectivity to an optional pan/tilt enclosure which effectively adds pan/tilt functionality and inputs/outputs for connecting external devices such as door sensors and relays to activate light or close doors.

Flexible installation and Power functionality

The ICA-2500 incorporates Power over Ethernet supplies power to the camera via the network, eliminating the need for power cables and reducing installation costs. With other advanced features such as the Gigabit Ethernet Transmission, giving a user the utmost in bandwidth flexibility and storage efficiency. The ICA-2500 is ONVIF-compliant and therefore interoperable with other manufacturer's products, it's also included 64-CH central management software; the ICA-2500 is indisputably the top choice for reliable and high performance surveillance.



1.3. Product Features

> Camera

- 1 / 3" Progressive 5MP CMOS sensor
- 2.8~8 mm Vari-focal, Auto-iris Lens
- 1.0 lux Minimum Illumination at F1.4
- Maximum resolution 2592 x 1944
- Removable IR-cut Filter for Day & Night Function
- CS- or C-mount Adjustment Ring for Flexible Lens Installation

Video / Audio

- H.264 / MPEG-4 and M-JPEG video compression simultaneously
- Simultaneous multi-stream support
- H.264 high profile, main profile and baseline
- Max. Resolution 5MP at 15 fps, 1080P at 30fps
- 3DNR to improve picture quality at low Lux
- WDR Enhancement for enhance visibility under extremely bright or dark environments
- Two-way audio support with enhanced audio quality

Network and Configuration

- Compliant with IEEE 802.3af PoE interface for flexible deployment
- Equipped with Gigabit Ethernet port
- Auto MDI/MDI-X supported
- Support for IPv6 in addition to the standard IP protocol version 4
- RTSP / UPnP / 3GPP / HTTPS protocols selectable

Easy Installation & Management

- Onvif compliant for interoperability
- Built-in Samba client for NAS
- 3GPP for 3G mobile remote applications
- RS485 interface for P/T scanner control



1.4. Product Specification

Model	ICA-2500			
Camera				
Image device	1/3" progressive scan CMOS sensor			
Lens	Vari-focal 2.8~8mm, F1.0 DC Auto-iris, CS mount Mechanical IR Cut Filter Angle of view (horizontal x vertical): 1/3W- 100.1°x 72.9° 1/3T- 35.8°x 26.8°			
Minimal Illumination	1.0 lux @ F1.4			
Effective Pixels	2592 x 1944 pixels			
Image				
Video Compression	H.264 / MPEG-4 / M-JPEG			
Video Resolution	5M mode H.264: 2592 x 1944 / 1280 x 960 / 640 x 480 / 320 x 240 2M mode H.264: 1080P / 1280 x 720 / 640 x 360 / 320 x 180 MPEG4: 1280 x 720 / 640 x 360 / 320 x 180 M-JPEG: 1080P / 1280 x 720 / 640 x 360 / 320 x 180			
Frame Rate	Up to 30fps for all resolutions			
Image Setting	AE, AWB 3D Noise reduction WDR Color, brightness, sharpness, contrast Mirror/Flip 8 Privacy Masks Text, time and date overlay			
Streaming	Simultaneously multi-profile streaming Streaming over UDP, TCP, or HTTP HTTPS M-JPEG streaming over HTTP (server push) Supports 3GPP mobile surveillance (MPEG4) Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4/H.264) ROI			
Audio				
Audio Streaming	Two-way Audio			
Audio Compression	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR			
Microphone	External microphone input			
Audio Output	Adjustable audio output gain			



Network and Configuratio	n		
Standard	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T		
Protocol	IPv4, IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, 3GPP, ICMP, Samba Password protection, IP address filtering, HTTPS encrypted data		
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, user access log		
Users	20 clients on-line monitoring at the same time		
System Integration			
Application Programming Interface	Open API for software integration ONVIF Compliant		
Alarm Triggers	Intelligent video motion detection and external input		
Alarm Events	File upload via FTP, Samba to NAS, SD card or email Notification via email, HTTP, and TCP External output activation Audio alerting output Pre- and post-alarm buffering		
General			
Power Requirement	12V DC, 1A IEEE 802.3af Class 3		
Power Consumption	7W max.		
Power Consumption	7W max.		
Power Consumption Operating Temperature	7W max. 0 ~ 50 Degree C		
Power Consumption Operating Temperature Operating Humidity	7W max. 0 ~ 50 Degree C 20 ~ 80% (non-condensing)		
Power Consumption Operating Temperature Operating Humidity Weight (include LENS)	7W max. 0 ~ 50 Degree C 20 ~ 80% (non-condensing) 404g		



Chapter 2. Hardware Interface

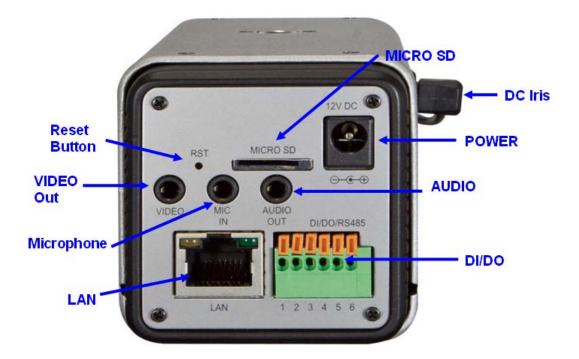
2.1. Front View



1	Lens	User could adjust the focus to get the best picture quality.		
2	Internal Microphone	The Camera has built-in an internal microphone. This microphone is hidden in the pinhole located on the front panel.		
3	Back Focus Ring	Adjust this ring to adapt focus of C/CS mount lens		



2.2. Rear View



1.	MIC In	Connect an external microphone to the network camera.
2.	Audio Output	Connect a loud speaker to the network camera. This function is for alerting sound and two-way audio.
		The input power is 12VDC.
3.	DC Power	Note that supply the power to the Camera with the power adapter included in package. Otherwise, the improper power adapter may damage the unit and result in danger.
4	Micro SD Card Slot	User can insert a micro SD card into this slot for event recording.
5	LAN Socket	The LAN socket is a RJ-45 connector for connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet supports Auto-Negotiation can detect or negotiate the transmission speed of the network automatically. Please use Category 5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub. The LAN port also supports IEEE802.3af class 3 Power over Ethernet capability that can direct connect with standard IEEE802.3af mid-span / end-span PSE (Power Sourcing Equipment) device. No DC power in required if the ICA-2500 is
		connected with 802.3af PSE.



		Power LED (c This LED is us LAN LED (gro	orange colo sed to indica een color)	are two LEDs embedded: or) ate whether DC power is on or not. while network accessing via Ethernet.
6	Factory Default Reset	However, if the factory default Restore 1. Ma suitable to 2. However, if the suitable to been rest Note: Restoring included IP and	t settings an the device: ke sure the ool to press ld it least 5 tored to defa ng the fact ddress fore	e device will make the system back to a normal state. still got problems after restart, user can restore the ad install it again. • Camera is ready first. Insert the paper clip or other and hold the button down continuously. • seconds and release the tool. Then the device has ault settings and reboot again. • ory default setting will lose the all previous settings ever. User needs to run the IPWizard II program to infigure it to let the device work properly again.
7	DI/DO Connector	DI2Digital signal inputGND3GNDDO4Digital signal output485+5RS485 data +		Function DC 12V (50mA maximum) Digital signal input GND Digital signal output
8	Video Out	function is onl not a Mega-pi	y for easy ir ixel resolutio	o provides composite video output. The video output Installation to check view angle and focus. The output is on. Furthermore, the video output is off by default. To r to Setting\Camera\Picture chapter.

9 DC Iris The Internet Camera supports DC-Iris control.



2.3. Hardware Installation

1. Fix the included stand to desired location

2. Attach the Camera to the stand

3. Plug an Ethernet cable into the Camera

Connect an Ethernet cable to the LAN socket located on the camera's rear and attach it to the network.

4. Connect the external power supply to Camera

Connect the included power adapter to the DC power jack of the camera.



Use the power adapter, 12VDC, included in the package and connect it to wall outlet for AC power. If the ICA-2500 is connected with IEEE802.3af Power over Ethernet device such as PoE injector or PoE Switch, DC power is not required. Either power the ICA-2500 from local DC power or PoE unless for purpose.

5. Done

Once you have installed the camera well and powered it on, the Power LED (orange) will turn on later. Once the Power LED turned on, it means the system is booting up successfully. Furthermore, if you have a proper network connection, and access to the camera, the LAN LED will flash green.





Chapter 3. Initial Utility Installation

This chapter shows how to quick set up your Internet camera. The Internet camera is with the default settings for the first time power on.

Default IP: DHCP Client OR 192.168.0.20 (if NO DHCP server existed in the network) Username: admin Password: admin

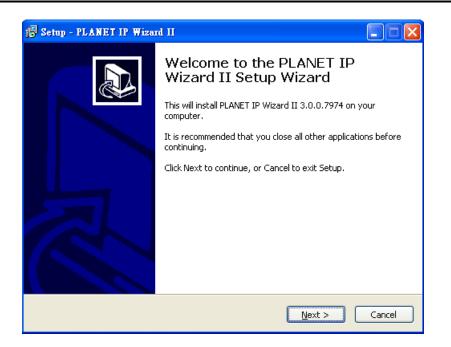
However, if you are not familiar with network setting and to help you find the networked Internet camera quickly the windows utility **PLANET IP Wizard II** can search the cameras in the network that shall help you to configure some basic setting before you started advanced management and monitoring.

- 1. Insert the bundled CD into the CD-ROM drive to launch the auto-run program. Once completed, a welcome menu screen will appear.
- 2. Click the "IP Wizard II" hyperlink; you will see the dialog box as below.

NOTE: If the welcome screen does not appear, click "Start" at the taskbar. Then, select "Run" and type "D:\Utility\IPWizard II\setup.exe", assume D is your CD-ROM drive.

3. The "Welcome to the InstallShield Wizard for PLANET IP Wizard II" prompt will display on the screen and click "**Next**" to continue.





4. Please click "**Next**" to install with original settings, or you may click "**Change...**" button to modify the install folder then press "Next" to continue.

1 ² Setup - PLANET IP Wizard II
Select Destination Location Where should PLANET IP Wizard II be installed?
Setup will install PLANET IP Wizard II into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\PLANET IP Wizard II Browse
At least 9.7 MB of free disk space is required.
< <u>B</u> ack <u>N</u> ext > Cancel

5. Please click "Install" to start the installation.



📴 Setup - PLANET IP Wizard II	
Ready to Install Setup is now ready to begin installing PLANET IP Wizard II on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\PLANET IP Wizard II Additional tasks: Additional icons: Create a desktop icon	
٤.	>
< <u>B</u> ack	Cancel

6. Please click "Finish" to complete the installation and launch program immediately.





3.1. Preparation

When you installed the Internet Camera on a LAN environment, you may execute PLANET IP Wizard II to discover camera's IP address and set up related parameters in the camera.

3.1.1. Search and View by PLANET IP Wizard II

When you installed the Internet Camera on a LAN environment, you have two easy ways to search your cameras by PLANET IP Wizard II or UPnP discovery. Here is the way to execute PLANET IP Wizard II to discover camera's IP address and set up related parameter in a camera.

✓ Search

🥏 PLANET IP Wizard II 👌	Version 3.0.0.7974		Interface : 10.1.1.210	00
Device Title	IP Address	Port	MAC	
SEARCH 🔍	Camera:		User Name: admin	
VIEW O	Model Name:		Password:	
	Network:			
LAN	DHCP:			
WIRELESS	WiFi:		No Signal	
EXIT	Connection:			
	Device ID (for DIPS):			



When launch the Planet IP Wizard II, a searching windows will pop up. Planet IP Wizard II is starting to search Internet Cameras on the LAN. The existed devices will be listed as below.

PLANET IP Wizard II Version 3.0.0.7974			Interface : 192.168.1.49 🤅) (
Device Title	IP Address	Port	MAC	
ICA-2200	192.168.0.31	80	00-30-4F-A2-5F-06	
ICA-2500	192.168.0.20	80	00-30-4F-A2-2E-5F	
ICA-HN312	192.168.0.12	80	00-30-4F-9B-1A-C1	
ICA-HN351	192.168.1.5	80	00-30-4F-A1-D5-F6	
Se	earching			
	66	%		
SEARCH Q	Camera:		User Name: admin	٦
Model Name:			Password:	ᆌ
VIEW O	Network:			
LAN	DHCP:			
	bitcr.			
WIRELESS	WiFi:		No Signal	
EXIT	Connection:			
	Device ID (for DIPS):			
	Device in (ior DIPS):			





✓ View

If Planet IP Wizard II finds Internet Camera, View button will be available. Please select the camera you want to view, key in the user name, password, i.e. "admin" by default and click the View button. Then you could see the Video from camera directly. Furthermore you could double click the left button of mouse to link to the Internet Camera by browser.

PLANET IP Wizard II	Version 3.0.0.7974		Interface : 10.1.1.210	00
Device Title	IP Address	Port	MAC	
ICA-2500	192.168.0.2	20 80	00-30-4F-A2-2E-5F	
SEARCH 🔍	Camera:		User Name: admin	
	Model Name:	ICA-2500	Password:	
	Network:	Wired		
LAN	DHCP:	OFF	-	
WIRELESS	WiFi:	Ethernet Only	- 3	AL AL
EXIT	Connection:	Not Connected		
	Device ID (for DIPS):	N/A		

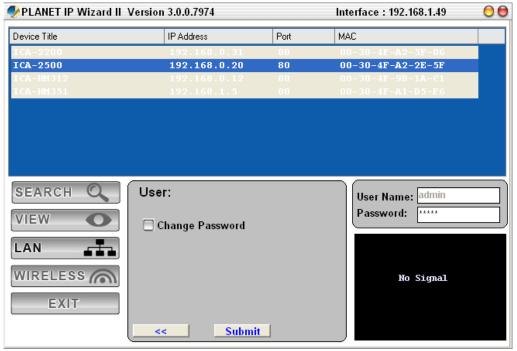
In case you want to change the IP related parameters of wired interface, please select the Internet Camera you want to configure and click the LAN button. Relative settings will be carried out as below.



PLANET IP Wizard II	Version 3.0.0.7974			Interface : 192.168.1.49	00
Device Title	IP Address		Port	MAC	
ICA-2200	192.168.	0.31	80	00-30-4F-A2-5F-06	
ICA-2500	192.168.	0.20	80	00-30-4F-A2-2E-5F	
ICA-HM351	192.168.	1.5	80	00-30-4F-A1-D5-F6	
	221 221				
SEARCH 🔍	LAN:			User Name: admin	
	Network:		● DHCP II	User Name: admin Password:	
SEARCH Q			• DHCP II		
	Network:	192.168			
	Network: IP Address:	192.168	. 0 . 20	Password:	
VIEW O	Network: IP Address: Subnet Mask:	192.168 255.255 192.168	. 0 . 20 .255. 0		
VIEW O	Network: IP Address: Subnet Mask: Gateway:	192.168 255.255 192.168 10.1	. 0 . 20 .255. 0 . 0 .254	Password:	

In case, you do not want to change username and/or password, then just click "Submit" button to perform your setting accordingly. Click "<<" button will go back to previous page.

If you like to change username and/or password of the device, just click the check button. Then, the related fields will show up as below.



After keying in new username and password, click "**Submit**" button to perform your setting accordingly. Click "<<" button will go back to previous page.



3.2. Using UPnP of Windows XP or Vista or Win7

UPnP[™] is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled device. If the operating system, Windows XP, of your PC is UPnP enabled, the device will be very easy to configure. Use the following steps to enable UPnP settings only if your operating system of PC is running Windows XP.

NOTE: Please notice that MS Windows 2000 does not support UPnP feature.

To discover your device, go to your Computer and click Network.

Organize Network and Sharing Center	er Add a printer Add a wireless device	
	 Computer (3) Media Devices (2) Other Devices (6) Unknown Device Print Server PS-038880 Print Server PS-567799 ICA-2500 - 00304FA22E5F ENM BRANDON NAS-7201 Printers (1) 	
🗣 Network		

Click the targeted Device. Then Internet Explorer will connect to this IP Camera automatically.



Chapter 4. Installation Guide

4.1. System Requirements

The Internet Camera can be monitoring on all of Windows operating system that suggest with system requirment below in order to got better video performance.

Network Interface	10/100Base-TX Ethernet
Monitoring System	Recommended for Internet Explorer 8.0 or later
System Hardware	· CPU: Intel® Core [™] i5 Processor or faster · Memory Size : 2GB or more · VGA card resolution : 1920 x 1080 or higher
	· VGA card memory : 1GB or above

- **NOTE:** 1. The listed information is minimum system requirements only. Actual requirement will vary depending on the nature of your environment.
 - The ICA-2500 series can be managed by PLANET IP Wizard II if you want to configure more detail information and settings of PLANET IP Wizard II software please refer to the CD-ROM folder "D:\Utility\IPWizardII\setup.exe", assume D is your CD-ROM drive.



4.2. Before You Begin

The Internet Camera can be configured with your Web Browser. Before configure, please make sure your PC is under the same IP segment with Internet Camera.

4.2.1. Connecting to Internet Camera

- Use the following procedure to establish a connection from your PC to the Internet Camera.
- Once connected, you can add the camera to your Browser's Favorites or Bookmarks.

Start the web browser on the computer and type the IP address of the camera. The Default IP: "<u>http://192.168.0.20</u>"



刘 🗢 🛛 🔊 http://192.168.0.20/

Note:	If your network is with DHCP server, by default, your DHCP server will provide an IP address for ICA-2500. Please check the DHCP server's status page for the real IP address of the ICA-2500. Or through the IP Wizard II to get the IP information. The ICA-2500 will use IP address 192.168.0.20 only if there is no DHCP server existed in the connected network.

The login window of Internet Camera will appear, Default login **username/password** is: **admin / admin**

Windows Security	,	×
The server 192.	168.0.20 at IPCam requires a username	e and password.
	User name Password I Remember my credentials]
	C	K Cancel



If the User name and Password have been changed with PLANET IP Wizard II, please enter the new User name and Password here.



After logged on, you should see the following messages at the top of Internet Explorer:



Click on the message, and click Run Add-on

C PLANET IP Surveillance Web Management - Windows Internet Explorer									
S S ▼ 2 http://192.168.0.20/									
<u>File Edit View Favorites Tools H</u> elp	File Edit View Favorites Icols Help								
🔶 Favorites 🏾 🏉 PLANET IP Surveillance We	🙀 Favorites 🛛 🍘 PLANET IP Surveillance Web Management								
🧭 This website wants to run the following add-on:	PLANET Media Control' from PLANET Technology Corporation'. If you trust th	website and the add-on and want to a Run Add-on	ow it to run, click here						
PLANET		What's the Risk?							
Networking & Communication		Information Bar Help							

When you see this message, click Run' to install required ActiveX control

Internet	Explorer - Security Warning
Do you	want to run this ActiveX control?
	me: <u>PLANET Media Control</u> her: PLANET Technology Corporation
	<u>R</u> un <u>D</u> on't Run
	This ActiveX control was previously added to your computer when you installed another program, or when Windows was installed. You should only run it if you trust the publisher and the website requesting it. <u>What's the risk?</u>

After the ActiveX control was installed and run, the first image will be displayed.

You should be able to see the images captured from the Internet Camera in the web page now. For advanced functions, please refer to instructions given in follows chapters.

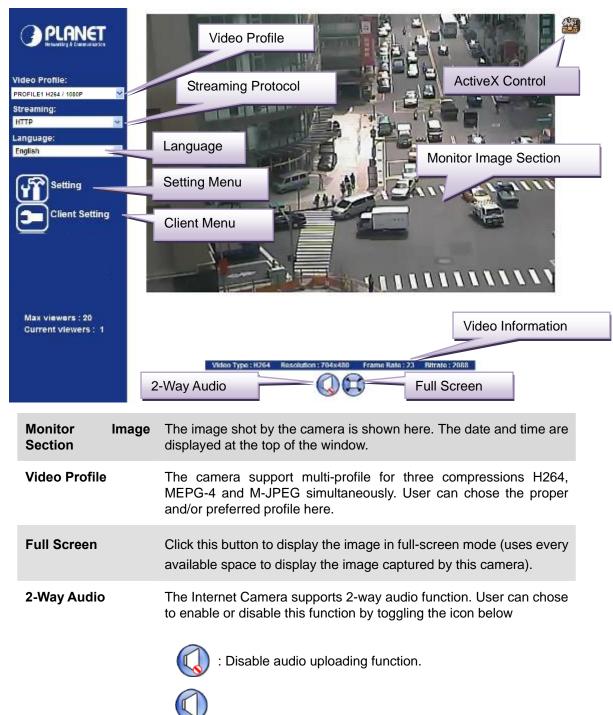
If you log in the camera as an ordinary user, setting function will be not available. If **NOTE:** you log in the camera as the administrator, you can perform all the settings provided within the device.



Chapter 5. Web Configuration for Live View

5.1. Live View

Start-up screen will be as follow no matter an ordinary users or an administrator.





: Enable audio uploading function.								
ActiveX Control	The plug-in ActiveX control supports a lot of functions by clicking the left mouse button. Note that this feature only supports on the ActiveX control within Microsoft® Internet Explorer.							
Setting Menu	This function is detail setting for the camera that only available for user logged into camera as administrator.							
	ltem	Action						
	Network	Configure Network settings such as IPv6, ONVIF, DHCP, DDNS, 3GPP, PPPoE and UPnP.						
	Camera	Adjust camera parameters.						
	System	Configure system information, date & time, maintenance, and view system log file.						
	Video	Configure bit rate and frame rate of video profiles.						
	Audio Configure audio parameters.							
	User Setup user name, password and login privilege							
	E-Mail Setup E-Mail configuration.							
	Object Detection	Setup Object detection.						
	Storage	Status and configuration of SD card and Samba server.						
	Continuous Recording	Files list inside the SD Card and Samba server.						
	Recording List	Files list inside the SD Card.						
	Event Server	Setup FTP/TCP/HTTP/Samba server for event						
	Event Schedule	Configure the schedule while event triggered.						
Streaming Protocol	User can select proper streaming protocol according to networking environment.							
Language	The device could provide multiple languages to meet customer's requirement.							
Client Setting: Click this button to display the client extra control pan Audio and Full Screen.								



Video Information Display video information including video format, resolution, frame rate and bit rate.

5.2. ActiveX Control

The plug-in ActiveX control supports a lot of functions by clicking the left mouse button. Note that this feature only supports on the ActiveX control within Microsoft® Internet Explorer.

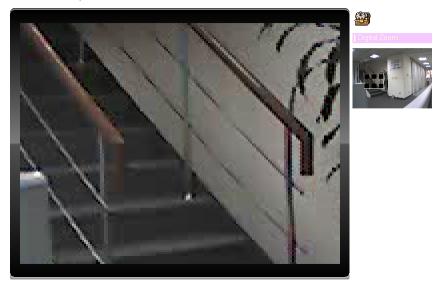
On the ActiveX control icon, click the Left Mouse Button, then a menu pop-up. This menu provides features that are unique to the ActiveX control. These features include:

- Digital Zoom,
- Snapshot,
- Record,
- Volume,
- About



5.2.1. Digital Zoom

Click **Digital Zoom** to active this function as above. User can drag or scale the box over the video to adjust zoom ratio and position.





5.2.2. Snapshot

Click **Snapshot** to activate this function. Press **Snapshot** button to take a picture. The image file is saved as JPEG format into your local PC. Select **Browser**, the pop-up window to select the save path and file name prefix, select **OK** to continue.

If you like to retrieve the saved image, select the file to display the saved image by using any one of graph editing tools.



5.2.3. Record

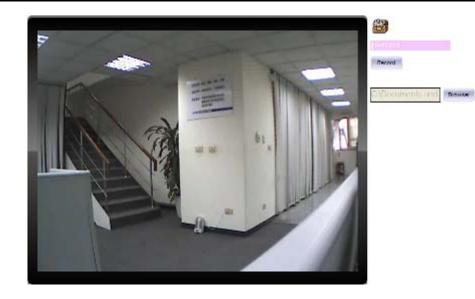
Click **Record** to activate this function. Press **Record** button to start recording. The video file is saved as ASF format into your local PC. While you want to stop it, press **Stop** to stop recording. Select **Browser**, the pop-up window to select the save path and file name prefix, select **OK** to continue.

After stop recording, list the files, this file is named as Video_yyyymmddhhmmss.asf

The ASF files can be display by the standard Windows Media Player, but it needs the DixectX 9.0 or later version to be installed.



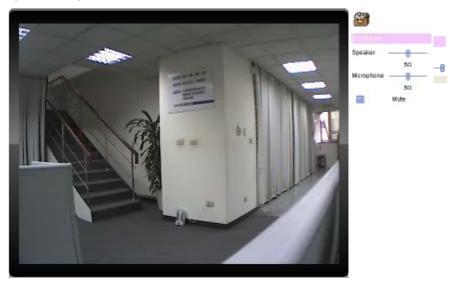
User's Manual of ICA-2500





5.2.4. Volume

Click Volume to activate this function. These have two control bars for speaker and microphone volume. Scroll this control bar to adjust the audio attribute. Check the volume mute will mute the speaker output.



5.2.5. About

Click About to show the ActiveX information





Chapter 6. Configuration &

Operation

6.1. Network Configuration

6.1.1. Network

This section provides the menu of connecting the device through Ethernet cable.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
MAC	Address		00:30:4F:	A2:2E:5F							
v 0	btain IP ad	idress auto	matically (C	HCP)							
IP Ad	dress		192.168	.0.20	Test						
Subn	et Mask		255.255	.255.0							
Gate	way		192.168	.0.254							
v 0	btain DNS	from DHCP									
Prim	ary DNS										
Seco	ndary DNS	5									
нттр	Port		80		(1 ~ 6553	5) Test					

MAC address	Display the Ethernet MAC address of the device. Note that user cannot change it.					
Obtain an IP address automatically (DHCP)	Enable this checked box when a DHCP server is installed on the network to issue IP address assignment. With this setting, the IP address is assigned automatically. If this device cannot get an IP address within limited tries, the device will assign a default IP address for 192.168.0.20.					





If you do not select "Obtain an IP address automatically", then you need to enter these network parameters by yourself.

- IP Address This address is a unique numbers that identifies a computer or device on the WAN or LAN. These numbers are usually shown in groups separated by periods, for example: 192.168.0.200
- Subnet Mask Subnets allow network traffic between hosts to be separated based on the network's configuration. In IP networking, traffic takes the form of packets. IP subnets advance network security and performance to some level by organizing hosts into logical groups. Subnet masks contain four bytes and usually appear in the same "dotted decimal" data. For example, a very common subnet mask in its binary demonstration 1111111 1111111 1111111 00000000 will usually be shown in the corresponding, more readable form as 255.255.255.0.
- Gateway A gateway is a piece of software or hardware that passes information between networks. You'll see this term most often when you either log in to an Internet site or when you're transient email between different servers.
- ObtainDNS fromEnable this checked box when a DHCP server is installed on theDHCPnetwork and provide DNS service.
- Primary DNSWhen you send email or position a browser to an Internet domain such
as xxxxx.com, the domain name system translates the names into IP
addresses. The term refers to two things: the conventions for naming
hosts and the way the names are control across the Internet.
- **Secondary DNS** The same function as DNS1. It is option not necessary
- HTTP PortThe device supports two HTTP ports. The first one is default port 80
and this port is fixed. This port is very useful for Intranet usage. The
second HTTP port is changeable. Users could assign the second port
number of http protocol, and the WAN users should follow the port
number to login. If the http port is not assigned as 80, users have to
add the port number in back of IP address. For example:
http://192.168.0.20:8080.

Therefore, the user can access the device by either http://xx.xx.xx/, or http://xt.xx.xx.xx/, to access the device.



If multiple devices are installed on the LAN and also required to be accessed from the WAN, then the **HTTP Port** can be assigned as the virtual server port mapping to support multiple devices.

NOTE When the configuration is finish, please click "**OK**" to save and enable the setting.

6.1.2. IPv6 function

Internet Protocol version 6 (IPv6) is called the "IP Next Generation" (IPng), which is designed to fix the shortcomings of IPv4, such as data security and maximum number of user addresses. It is backward compatible and thus expected to slowly replace IPv4, with the two existing side by side for many years.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
IPv6			Disabl	e 🔍 Enable	2						
IPv6		т	h enabl	le or dis	able the l	Pv6 fu	nction be	ere			
11 VO						i vo iu					

6.1.3. HTTPS

HTTPS: Stands for Hypertext Transfer Protocol Secure

HTTPS is a combination of the Hypertext Transfer Protocol with the SSL/TLS protocol to provide encrypted communication and secure identification of a network web server. HTTPS connections are often used for sensitive transactions in corporate information systems. The main idea of HTTPS is to create a secure channel over an insecure network. This ensures reasonable protection from eavesdroppers and man-in-the-middle attacks, provided that adequate cipher suites are used and that the server certificate is verified and trusted.



Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Denieur	ONVIF	IP Filter	IP Notification
Network	IPV6	нира	DDN2	PPPOE	Streaming	UPhP	Bonjour	UNVIF	IP Filter	IP Notification
HTTP	S		Disabl	e 🔍 Enabl	e					
Port			443		(1 ~ 65535)	Test				
ттре			Та	noble	or diaable	thal		onvior	horo No	ote that the
TTPS										
			tunc	ction of	this device	ce is no	ot only e	ncrypte	d the w	eb content b

Port

Choose the HTTPS port. The default value is 443.

6.1.4. DDNS server

Stands for Dynamic Domain Name Server

audio/video data.

The device supports DDNS If your device is connected to xDSL directly, you might need this feature. However, if your device is behind a NAT router, you will not need to enable this feature. Because DDNS allows the device to use an easier way to remember naming format rather than an IP address. The name of the domain is like the name of a person, and the IP address is like his phone number. On the Internet we have IP numbers for each host (computer, server, router, and so on), and we replace these IP numbers to easy remember names, which are organized into the domain name. As to xDSL environment, most of the users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the Dynamic Domain Name Server is necessary. For more DDNS configuration, please consult your dealer.

Your Internet Service Provider (ISP) provides you at least one IP address which you use to connect to the Internet. The address you get may be static, meaning it never changes, or dynamic, meaning it's likely to change periodically. Just how often it changes, depends on your ISP. A dynamic IP address complicates remote access since you may not know what your current WAN IP address is when you want to access your network over the Internet. The solution to the dynamic IP address problem comes in the form of a dynamic DNS service.

The Internet uses DNS servers to lookup domain names and translates them into IP addresses. Domain names are just easy to remember aliases for IP addresses. A dynamic DNS service is unique because it provides a means of updating your IP address so that your listing will remain current when your IP address changes. There are several excellent DDNS services available on the Internet and best of all they're free to use. One such service you can use is www.DynDNS.org.



You'll need to register with the service and set up the domain name of your choice to begin using it. Please refer to the home page of the service for detailed instructions or refer to Appendix E for more information.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
DDN	6		Disabl	e 🔍 Enabl	b						
Serve	r Name		PLANET D		-						
DDN	6 Host				.planetddns	.com (6 ~ 1	16 Diaits)				
User	Name				(6~16 Digits		,				
Pass	vord				(6~16 Digits						
Interr	net Status										

DDNS	To enable or disable the DDNS service here.
Server name	Choose the built-in DDNS server.
DDNS Host	The domain name is applied of this device.
User Name	The user name is used to log into DDNS.
Password	The password is used to log into DDNS.

6.1.5. PPPoE

PPPoE: Stands for Point to Point Protocol over Ethernet

A standard builds on Ethernet and Point-to-Point network protocol. It allows Internet Camera connect to Internet with xDSL or cable connection; it can dial up your ISP and get a dynamic IP address. For more PPPoE and Internet configuration, please consult your ISP.

It can directly connect to the xDSL, however, it should be setup on a LAN environment to program the PPPoE information first, and then connect to the xDSL modem. Power on again, then the device will dial on to the ISP connect to the WAN through the xDSL modem.

The procedures are

• Connect to a LAN by DHCP or Fixed IP



Access the device, enter Setting → Network → PPPoE as below

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
PPPo	E		Disabl	e 🔍 Enable							
User	Name				(< 65 Digits)						
Passv	vord				(< 65 Digits)						
IP Ad	dress				(readonly)						
Subn	et Mask				(readonly)						
Gatev	vay				(readonly)						
Statu	5				(readonly)						

PPPoE	To enable or disable the PPPoE service here.
User Name	Type the user name for the PPPoE service which is provided by ISP.
Password	Type the password for the PPPoE service which is provided by ISP.
IP Address / Subnet Mask / Gateway	Shows the IP information got from PPPoE server site.
Status	Shows the Status of PPPoE connection.

6.1.6. Streaming

RTSP is a streaming control protocol, and a starting point for negotiating transports such as RTP, multicast and Unicast, and for negotiating codecs. RTSP can be considered a "remote control" for controlling the media stream delivered by a media server. RTSP servers typically use RTP as the protocol for the actual transport of audio/video data.



Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
RTSP	Port		554		(554 ~ 65535	Test					
RTP P	ort		50000		~ 50999		(1024 ~ 655	535)			

RTSP Port	Choose the RTSP port. The RTSP protocol allows a connecting client to start a video stream. Enter the RTSP port number to use. The default value is 554.							
RTP Port	Specify the range of transmission port number of video stream. The default range is 50000 to 50999. User can specify a number between 1024 and 65535.							
NOTE	To use the 3GPP function, in addition to previous section, you might need more information or configuration to make this function work.							
	The camera must be set as Multi-profile mode, not Mega-pixel mode. Otherwise this device cannot serve 3GPP stream.							
	To use the 3GPP function, it strongly recommends installing the Networked Device with a public and fixed IP address without any firewall protection.							
	Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number for some reasons. If so, user needs to change this port accordingly.							
Dialing procedure	1.Choose a verified player (PacketVideo, Quicktime or Realplayer currently)							
	2. Use the following URL to access: rtsp://host/mpeg4/media.3gp Where host is the host name or IP address of the camera.							
Compatible 3G mobile	Please contact your dealer to get the approved list of compatible 3G phone.							



phone

6.1.7. UPnP

UPnP is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled Internet Camera. If your operating system is UPnP enabled, the device will automatically be detected and a new icon will be added to "My Network Places." If you do not want to use the UPnP functionality, it can be disabled

In addition, this device also provides UPnP IGD function for NAT traversal easily. Use NAT traversal when your device is located on an intranet (LAN) and you wish to make it available from the other (WAN) side of a NAT router. With NAT traversal properly configured, all HTTP traffic to an external HTTP port in the NAT router will be forwarded to the device.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification			
UPnP			Disable	Enable									
Friendly Name			ICA-2500 -	00304FA22E	5F		(readonly)					
UPnP I	NAT Trave	ersal	Disable	Enable									
Port Ra	ange		32768 ~ 65535				(1 ~ 65535)						
External IP Address			AddPortMa	apping(3276	8, 32768, 192.168	3.0.20) faile	d w (readonly	w (readonly)					

UPnP	To enable or disable the UPnP service here.
Friendly Name	Shows the friendly name of this device here.
UPnP NAT Traversal	When enabled, the device will attempt to configure port mapping in a NAT router on your network, using UPnP [™] . Note that UPnP [™] must be enabled in the NAT router first.
Port Range	The port range will open in NAT router.
External IP address	Show the IP address and port for WAN access through Internet. If NAT traversal is configured successfully, user can use this IP address and port to access this device.





6.1.8. Bonjour

The Bonjour service allows IP camera can be discovered with Apple Safari browser applied, once the option enable the IP camera will be show the Friendly Name in the Bonjour bookmarks menu of Safari browser.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification			
Bonjo	ur		Disable	• Enable									
Friendly Name				00304FA22E	5F		(readonly	(readonly)					
Bonjou	r		To enable or disable the Bonjour service here.										
			,										
Friendl	y Nam	е	Sho	ws the fr	iendly nam	ne of thi	s device	here.					

6.1.9. ONVIF

ONVIF is a global and open industry forum with the goal to facilitate the development and use of a global open standard for the interface of physical IP-based security products. Or in other words, to create a standard for how IP products within video surveillance and other physical security areas can communicate with each other.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
ONVIF		ΗΠΡ	Disable	e O Enable		UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
ONVIF			To er	nable oi	r disable t	he ON ^v	VIF interf	ace he	re.		
Versio	n		Curre	ently, th	e V1.0 or	V1.01/	1.02/V2.0	0/V2.1.	1 is avai	lable.	



6.1.10. IP Filter

You can enter different user's IP address which are allowing enter or denying by the device.

Network	IPv6	HTTPS	DDNS	PPPoE	Streaming	UPnP	Bonjour	ONVIF	IP Filter	IP Notification	
IP Fil IP Fil	iter Iter Policy		● Disabl ● Deny Save	e • Enable • Allow	2						
			F	Filt	er IP List ete DeleteAll						

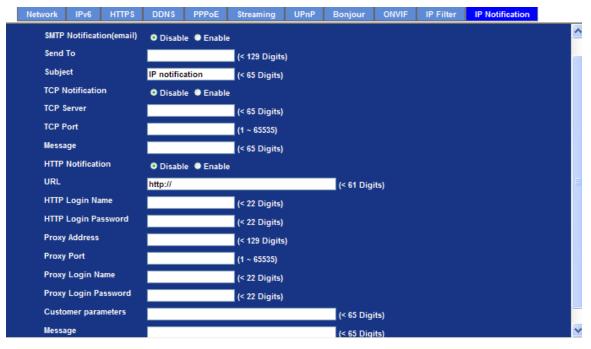
IP Filter To enable or disable the IP filter function here.

IP Filter Policy Choose the filter policy where is denying or allowing.



6.1.11. IP Notification

In case the IP address is changed, system is able to send out an email to alert someone if the function is enabled.



SMTP Notification (e-mail)	If enable this function, then the " Send to " and " Subject " field need to be filled.
Send To	Type the receiver's e-mail address. This address is used for reply mail.
Subject	Type the subject/title of the E-mail.
TCP Notification	If enable this function, then the " TCP Server ", " TCP Port ", and " Message " fields need to be filled.
TCP Server	Type the server name or the IP address of the TCP server.
TCP Port	Set port number of TCP server.
Message	The message will be sent to FTP server.
HTTP Notification	If enable this function, then the fields below need to be filled.
URL	Type the server name or the IP address of the HTTP server



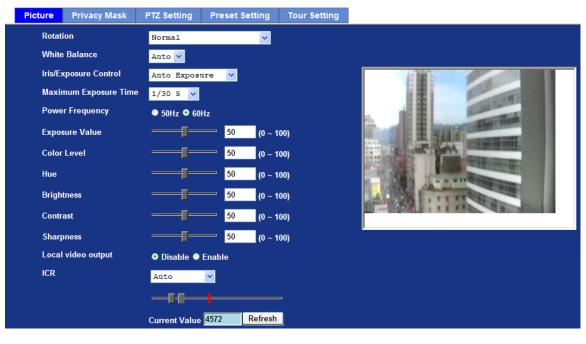
HTTP Login name	Type the user name for the HTTP server.
HTTP Login Password	Type the password for the HTTP server.
Proxy Address	Type the server name or the IP address of the HTTP Proxy.
Proxy Port	Set port number of Proxy.
Proxy Login name	Type the user name for the HTTP Proxy.
Proxy Login Password	Type the password for the HTTP Proxy.
Custom parameter	User can set specific parameters to HTTP server.
Message	The message will be sent to HTTP server.



6.2. Adjust Camera Configuration

Use this menu to set the function of the camera of Internet Camera

6.2.1. Picture



Rotation

Turn the "Mirror" and "Vertical Flip" On or OFF. The image will be overturned as below.

Normal	Mirror
lmage	lmage
Vertical Flip	Mirror + Vertical Flip
Image	әбеші



White Balance	Auto: will adjust the white balance automatically.
	Hold: will hold the white balance.
Iris/Exposure Control	 Auto Iris: will adjust the DC Iris automatically. This Camera is built-in a DC-Iris lens. In case, the "Auto Iris" mode is selected, the Camera will control DC Iris automatically. Sometimes, the Auto Iris may work abnormally under some environments. In this case, user can click "Calibrate" button to adjust Auto Iris function again. Auto Exposure: will adjust the image sensor exposure automatically. Hold Exposure: will hold the exposure setting. Manual Exposure: User can configure sensor exposure to fixed setting. Outdoor: In case this camera is installed in outdoor, then shall enable this option.
	Otherwise, disable it. The feature can improve auto-exposure performance under strong sunlight.
Maximum Exposure Time	Set the Maximum Exposure Time. However, the real exposure time may be shorter if good light condition.
Power Frequency	Frequency of power line: 50 or 60Hz.
Exposure Value	Exposure value is AE target value. This value is to adjust the integration, analog gain and digital gain to achieve the target brightness value (Exposure Value). This value is dependent to "Auto Exposure" only
Color Level	Large value will be colorful.
Hue	Change the value will result to color tuning.

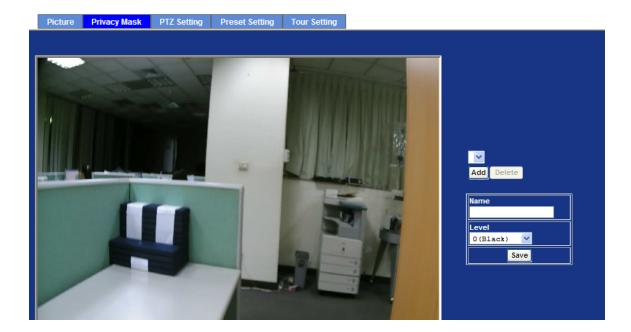


Brightness	Large value will brighten camera.				
Contrast	Large value will contrast camera heavily.				
Sharpness	Large value will sharpen camera.				
Local video output	Enable or disable video signal of BNC connector. It's very useful to check view angle or focus during camera installation. However, disable this function will save power a lot. Suggest to disabling it after camera installed well.				
ICR	Use built-in photo sensor or manual to control ICR.				
	In case user selects manual mode, there are 4 modes: Night (On), Day (Off), Auto or Schedule to control built-in IR LEDs. This function is very useful under low illumination environment even 0 Lux.				
	In case the Auto mode is selected, user needs to specify 3 parameters in advance:				
	Night Mode Threshold (0~10000): this value set the threshold to turn on IR LED. It should be lower or equal to Day Mode Threshold.				
	Day Mode Threshold (0~10000): this value set the threshold to turn off IR LED. It should be higher or equal to Night Mode Threshold.				
	Delay Time: The delay time between LED ON/OFF switching.				
	Note: that Current Value is the current luminance from the captured video. It's a useful reference to set LED ON/OFF Threshold.				
Noise Reduction	This function is to reduce noise of input image.				
WDR	This function is to provide clear images even under back light circumstances. The higher "Strength" level will adjust contrast compensation stronger.				
Default Settings	Restore to factory image settings.				



6.2.2. Privacy Mask

Use this page to specify privacy mask window 1 to window 8 and set the name and gray level for selected window.



Add and Delete	To add or delete the privacy mask windows, user can specify up to 7 windows to mask the video captured by this device. By dragging mouse on the image, you can change the position and size of the selected window accordingly.
Name	Name of the specified privacy window
Level	To define the gray level of mask block. The smaller value will be darker.



6.2.3. PTZ Setting

This page allow user to modify the RS-485 interface according to the P/T scanner.

Picture Privacy Mask	PTZ Setting Preset Setting Tour Setting
Camera Protocol Camera Address Baud rate	none
Camera Protocol	This device can connect to a PTZ camera or speed dome camera and controls them thru RS-485 interface.
Camera Address	This is the camera ID set in PTZ camera or speed dome camera. Note that please DO NOT changes the default value if unnecessary. If so, user needs to check and set value properly for both sides.
Baud rate	This is the communication speed between network module and P/T scanner.
NOTE	If need to change these parameters, user needs to check and set value properly for both, network module and P/T scanner.



6.2.4. Preset Setting

This page provides the edit tool to modify or delete the "Preset Setting" item by item.

ture	Privacy Mask	PTZ Setting	Preset Setting	Tour Setting			
Pres	et Number Prese	t Name Hom	e Position		Preset List		
				Preset Numb	er		
				Preset Name			
				Home Positio	on • Enable •	Disable	
					odify Delete		



6.2.5. Tour Setting

Up to 64 positions can be preset, and the camera can be programming to move to the preset position sequentially.

lictu	re	Privacy	y Mask	PTZ S	etting	Preset Setting	Tour S	etting			
	Tour	Number	Tour	Name	Rurri	ing	Sequence	Preset	Name	Wait	Time
							bequence	rteset		Marc	1102
	Tour	Name					1				
	Runn	ning		Enable	Disab	le					
			Add	Modify	Delete	J			Modify	J	

Tour Name	The group name of the sequence of camera tour. The maximum number of camera tour is 16.
Running	Enable or disable this camera tour.
Preset	Set the sequence of the tour. Maximum 16 points can be assigned. The selected preset position is added in the Sequence list from 1 to 16.
Wait Time	Type a period of time during which the camera is to stay at each preset point, between 0 to 36000 seconds.
NOTE	To use the camera tour function, user must preset some camera positions first. The maximum number of preset points is 64.



6.3. System

Use this menu to perform the principal settings of Internet Camera.

6.3.1. System

	Sys	tem	I	Date & Tim	e Maintenance							
	Device Title											
					ICA-2500 (0 ~ 30 Digits)							
				ion	6.M.2.8883							
	Netv	vork LE	ED		Enable Disable	● Enable ● Disable						
	Pow	ver LED			● Enable ● Disable							
	Log				Reload							
	-											
			_									
					ICA-2500 syslog.info syslogd started: BusyBox v1.16.1							
					ICA-2500 user.err rec: queue_proc: run.							
					ICA-2500 user.err rec: job_proc: run.							
		Nov			ICA-2500 daemon.info init: starting pid 1159, tty '': '/sbin/getty -L ttyS00							
					ICA-2500 user.err network: result of query port: 32768 0							
					ICA-2500 auth.info login[1159]: root login on 'ttyS000'							
		Nov			ICA-2500 user.err network: upnpc -a 192.168.0.205 32768 32768 TCP > /tmp/igd							
		Nov			ICA-2500 user.err network: UPnP NATTraversal: upnpc : miniupnpc library test							
		Nov			ICA-2500 user.err network: UPnP NATTraversal: Go to http://miniupnp.free.fr/							
		Nov	_		ICA-2500 user.err network: UPnP NATTraversal: for more information.							
		Nov	_		ICA-2500 user.err network: UPnP NATTraversal: List of UPNP devices found on							
		Nov			ICA-2500 user.err network: UPnP NATTraversal: desc: http://192.168.0.61:80/							
		<	2	20+15+14	TCA-2500 user err network: IIDnD NATTreversel. et. unn:rootdevice							
			_									

Device title	You can enter the name of this unit here. It's very useful to identify the specific device from multiple units.
Software version	This information shows the software version in the device.
Network LED	Switch the LED light of this Internet Camera on or off, that Network LEDs will stop working; in case you don't want other people know the camera is transferring data.
Power LED	Switch the LED light of this Internet Camera on or off.
Log	User can check the system log information of the device, including the Main Info, Appended Info, Operator IP, and so on
Reload	Click this button; user can refresh the log information of the device.



6.3.2. Date & Time

User can setup the time setting of Internet Camera, make it synchronized with PC or remote NTP server. Also, you may select the correct time zone of your country.

System	Date & Time	Maintenance
Serve	er Date & Time	2012-7-09 15:46:21
PC Ti	me	2012-7-9 15:46:17
Adjus	t	Synchronize with PC
		● Manual setting : Date : 2012 🗸 . Jul 💙 . 09 🗸 Time : 15 🟹 : 45 🟹 : 43 🗸
		Synchronize with NTP
NTP S	Server	time.stdtime.gov.tw Test
NTP S	Sync. Interval	24 hour 💌
Time	zone	GMT (Dublin, Lisbon, London, Reykjavik)
Dayli	ght Saving	● Disable ● Enable
Dayli	ght Saving StartTi	me Jan 🗸 01 🗸 00 🗸: 00 🗸: 00 🗸
Dayli	ght Saving StopTi	me Jan 🗸 01 🗸 00 🗸: 00 🗸: 00 🗸
Dayli	ght Saving Offset	+ • 01 •: 00 •: 00 •

Server Date & Time	Displays the date and time of the device						
PC Time	Displays the date	and time of the connected PC					
	Synchronize with PC:	Click this option to enable time synchronization with PC time					
Adjust	Manual setting:	Click this option to set time and date manually					
	Synchronize with NTP:	Click this option if you want to synchronize the device's date and time with those of time server called NTP server (Network Time Protocol)					
NTP server name	Type the host na server.	ame or IP address or domain name of the NTP					
NTP sync. Interval	Select an interval between 1 and 23 hours at which you want to adjust the device's time referring to NTP server						
Time zone	Set the time difference from Greenwich Mean Time in the area where the device is installed.						
Daylight saving	Check this item to	enable daylight saving adjustment.					



Daylight Saving Start Time	Sets up the date and time of daylight saving start time.
Daylight Saving Stop Time	Sets up the date and time of daylight saving stop time.
Daylight Saving Offset	Sets up the date of daylight saving offset.

6.3.3. Maintenance

System	Date & Tir	ne 🛛	Maintenance								
Defau	ult Settings (In	cluding N	letwork Setting)		Facto	ry Default Settings					
Defau	ult Settings (Ex	cluding	Network Setting)		Default	Settings					
Back	up Setting		Backup Set	ing							
Resto	ore Setting				Browse	Restore Setting	Re	set			
Firmv	vare Upgrade				Browse	Firmware Upgr	ade	Reset			
Syste	em Restart		Restart								

Default Settings (Include the network setting)	Recall the device hard factory default settings. Note that click this button will reset all device's parameters to the factory settings (including the IP address).
Default Settings (Except the network setting)	The unit is restarted and most current settings are reset to factory default values. This action will not reset the network setting.
Backup Setting	To take a backup of all of the parameters, click this button. If necessary, it will then be possible to return to the previous settings, if settings are changed and there is unexpected behavior.
Restore Setting	Click the " Browse " button to locate the saved backup file and then click the "Restore Setting" button. The settings will be



restored to the previous configuration.

Firmware upgrade The device supports new firmware upgrade. 1. Close all other application programs which are not necessary for firmware update. 2. Make sure that only you access this device at this moment 3. Disable Motion Detection function.

- 4. Select "Firmware name"
- 5. Select the Firmware binary file.

Note :

That it must make sure that the Firmware only applies to this device, once update, it will be burned into FLASH ROM of system.

- 6. Once the firmware file was selected, select "Upgrade".
- 7. The upgrade progress information will be displayed on the screen.
- 8. A message will be shown while the firmware upgraded. Once the upgrading process completed, the device will reboot the system automatically.
- 9. Please wait for 80 seconds, and then you can use PLANET IP Wizard II to search the device again.

Warning!!!

The download firmware procedure cannot be interrupted. If the power and/or network connection are broken during the download procedure, it might possibly cause serious damage to the device.

Please be aware that you should not turn off the power during updating the firmware and wait for finish message.

Furthermore, do not try to upgrade new firmware if it's not necessary.

System Restart The device is restarted without changing any of the settings.



6.4. Video

This device provides 2 modes of video profile. The first one is 5MP mode which supports video resolution up to 5 Mega-pixel (2592x1944). The second one is 2MP mode which supports video resolution up to 2 Mega-pixel (1920x1080). User only can select either 5MP or 2MP modes to operate the camera. Switching between 5MP and 2MP mode, the device will take time to reboot system.

6.4.1. Common

	Common	Overlay Image	Video Profile	ROI					
	Video F	Profile	• 2 MEGA Mode	• 5 MEG/	A Mode				
	Text Ov	verlay Setting	Font Color 797979	S	et Color	Defa	ult Color		
			Background Color	101010	Set	Color	Default C	olor	
			Transparency 0 (c	pacity)	*				
			Include Date						
			Predefined	YYYY-N	M-DD	*			
			● Own <mark>%Y-%</mark>	m-%d		(0 ~ 12 D	ligits)		
			Include Time						
			Predefined	24h 🗸					
			• Own <mark>%H:%</mark>	M:%S		(0 ~ 12 D	ligits)		
			Include Text						
					(0 ~ 20 Di	igits)			
Ì									
	Video Prot	Se	ser can only cho erve streams up t and, 2MP mode	o 2592	x1944 re	solutio	ns maxim	um. On th	e other

Text Overlay Setting	There ar	e some	important	information	can	be	embedded	into
	image, in	cluding o	date, time, a	and/or text.				

maximum.



6.4.2. Overlay Image

User can upload bitmap file to the camera and overlay the picture on streaming video and set its attributes.

Common Over	l <mark>ay Image</mark> Video I	Profile ROI			
Upload Own Im	age	E	rowse Uplo	ad File Reset	
Image Overlay	Setting 📕 Includ	le overlay image			
Coordinates	х <mark>0</mark>	Y 0			
File	<no overla<="" th=""><th>ay image></th><th></th><th></th><th></th></no>	ay image>			
Resolution					
Chroma Key	FFFFFF	Set Color	Default Color		
Transparency	0(opaci	ty) 🔽			

Upload own image	Currently, user can download bitmap file only to camera.
Image Overlay Setting	Check this item to enable image overlay. Otherwise, the uploaded bitmap will not be overlaid on video.
Coordinates	Set position of image on the video.
File	Information of the uploaded bitmap file.
Resolution	Size information of the uploaded bitmap file
Chroma Key (Background Color)	Define the Chroma key of the uploaded bitmap file. Then user can set transparency of the bitmap
Transparency	Lower value will lower transparent. Value 0 means opacity



6.4.3. Video Profile

User can modify the detail parameter for each video profiles in this page.

Common	Overlay Image	Video Profi	e ROI									
Profile7	h264/Baseline	640x360	EVBR	70	-	30	30	no	no			
Profile8	mpeg4	640x360	EVBR	90	-	30	30	no	no			
Profile9	mjpeg	640x360	VBR	90	-	30	1	no	no			
Profile10	h264/Baseline	320x180	EVBR	70	-	30	30	no	no			
Profile11	mpeg4	320x180	EVBR	90	-	30	30	no	no			
Profile12	mjpeg	320x180	VBR	90	-	30	1	no	no			
Name		Profile1										
Video Type		h264 💙										
video Type		Baseline	~									
Resolution		1080p										
ROI		● Yes O No										
			EVBR 🔽									
Rate Control		Quality <mark>75 🔽</mark>										
		Max Bitrate 10000 K bps 1024 ~ 15000										
Max Frame Rat	te	15 🗸										
GOP Control		30 🗸										
Multicast		Enable ODisable										
Multicast Video		IP Address 2	39.198.97.18	1	Port 0	(0 means auto, 1	1024 ~ 65534)					
Multicast Audio))	IP Address 2	39.198.97.18	1	Port 0	(0 means auto, 1	1024 ~ 65534)					
Time to live		1		(1 ~ 255)								
Always Enable	Multicast	Enable •	Disable									

Name	To assign a name to the selected profile.
Video Type	Video codec of the selected profile.
Resolution	Resolution of the selected profile.
ROI	Assign the selected profile as a ROI stream or not. (Only available for the profiles with max resolution)
Rate Control	Defines the rate control method of this profile. There are four options: Constant Bit Rate (CBR), Variable Bit Rate (VBR), Enhanced Constant Bit Rate (ECBR), and Enhanced Variable Bit Rate (EVBR).
	For CBR, the video bit rate is between low to high bandwidth based on different resolutions. User can set the desired bit rate to match the limitation of bandwidth.
	For VBR, user should choose the quality level to set the video quality rather than bit rate. The quality level is between 1 and 100. The



higher value can reach the better quality but of course will consume higher bandwidth.For ECBR, the video bitrates is based on normal CBR mode. However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal CBR bitrates. For EVBR, the video bitrates is based on normal VBR mode. However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal VBR mode.Max Frame RateDefines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastIn address and port for multicast function.Multicast AudioIP address and port for multicast audio streaming of the selected profile.Always MulticastEnableMulticastMulticast streaming is always enabled or by request	higher bandwidth.For ECBR, the video bitrates is based on normal CBR mode.However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal CBR bitrates.For EVBR, the video bitrates is based on normal VBR mode. However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal VBR mode.Max Frame RateDefines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast AudioIP address and port for multicast audio streaming of the selected profile.AlwaysEnable					
However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal CBR bitrates. For EVBR, the video bitrates is based on normal VBR mode. However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal VBR mode.Max Frame RateDefines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastInable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profile.AlwaysEnableMulticast streaming is always enabled or by request	However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal CBR bitrates. For EVBR, the video bitrates is based on normal VBR mode. However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal VBR mode.Max Frame RateDefines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnableMulticast streaming is always enabled or by request					
However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal VBR mode.Max Frame RateDefines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profile.AlwaysEnableMulticast streaming is always enabled or by request	However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a pre-defined time period and then back to normal VBR mode.Max Frame RateDefines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnableMulticast streaming is always enabled or by request		However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a			
AlwaysEnableDefines the lagetee name have on any product of or any product of or any product of the selected frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnable	GOP ControlDefines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnableMulticast Streaming is always enabled or by request		However, the target bitrates can be increased to max target bitrates while lots of motion in video. The max target bitrates will keep a			
set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnableMulticast streaming is always enabled or by request	set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.MulticastEnable or disable the multicast function.Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnableMulticast Streaming is always enabled or by request	Max Frame Rate	frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video			
Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnableMulticast streaming is always enabled or by request	Multicast VideoIP address and port for multicast video streaming of the selected profile.Multicast AudioIP address and port for multicast audio streaming of the selected profileAlwaysEnableMulticast streaming is always enabled or by request	GOP Control	set the GOP to 30, then the video stream will have one Intra-frame			
Multicast Audio IP address and port for multicast audio streaming of the selected profile Always Enable Multicast streaming is always enabled or by request	multicast Audio IP address and port for multicast audio streaming of the selected profile Always Enable Multicast streaming is always enabled or by request	Multicast	Enable or disable the multicast function.			
Always Enable Multicast streaming is always enabled or by request	Always Enable Multicast streaming is always enabled or by request	Multicast Video				
		Multicast Audio				
		-	Multicast streaming is always enabled or by request			

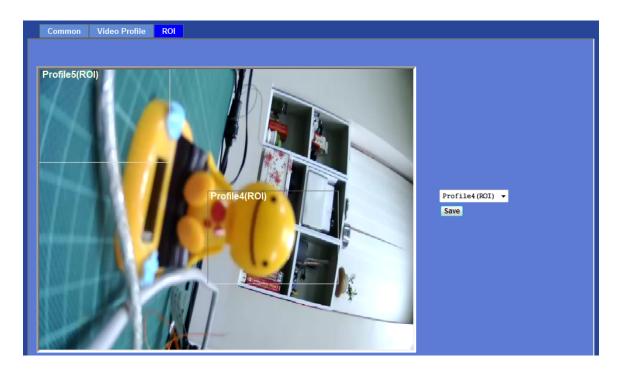
Warning!!!

To enable the multicast streaming, you should make sure your Intranet does support multicast function. Otherwise, your Intranet may encounter network storm seriously due to the video/audio broadcast.



6.4.4. ROI

ROI means Region of Interest. Use this page to specify location of ROI windows. Only the maximum resolution profiles can be defined as ROI. In this model, the default ROI windows are profile 4 and 5.



6.5. Audio Configuration





Audio	To enable or disable audio function.
Audio type	To select G711 or G726 for audio coding.
Audio Mode	To select Simplex or Full duplex (2-way audio) mode.
Input Gain	To adjust gain of input audio.
Output Gain	To adjust gain of output audio.

6.6. User Privilege Access Configuration

Use this menu to set the user names and password of the Administrator and up to 10 users, and access right of each user.

Setting			
Viewer Login O Anonym	ious 🌢 Only users in dat	abase Save	
User Name Access Right	PTZ Control		User List
admin administrato	r yes	User Name	(1 ~ 20 Digits)
		Password	(0 ~ 20 Digits)
		Verify Password	(0 ~ 20 Digits)
		Access Right	Administrator Viewer
		PTZ Control	Enable Oisable
			Add Modify Delete
Viewer Login	•	erwise, only us	ny one viewing the video once ers in database can view the
Access Right		vers only can	ery function in this device. view the video and access
PTZ Control	Authorize this u	iser to control P	TZ function or not.
Add Madify and Dalata of	Managatha	ar's second of	

Add, Modify, and Delete of Manage the user's account of viewer user. Users account



6.7. E-Mail Configuration

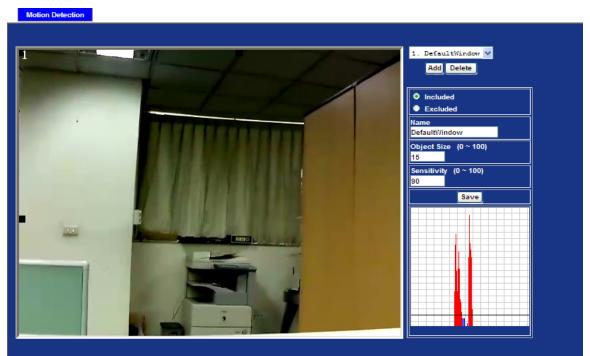
You may setup SMTP mail parameters for further operation of Event Schedule. That's, if users want to send the alarm message out, it will need to configure parameters here and also add at least one event schedule to enable event triggering.

Setting	
SMTP Server SMTP Port SSL SMTP Authentication Authentication User Name Authentication Password E-mail From E-mail To E-mail Subject	mail.planet.com.tw (< 129 Digits) Test 25 (1 ~ 65535) • Disable • Enable admin (< 65 Digits) • • • • • • • • • • (< 22 Digits) admin@planet.com,.tw (< 129 Digits) support@planet.com,.tw (< 129 Digits) message (< 65 Digits)
SMTP Server	Type the SMTP server name or the IP address of the SMTP server.
Test	Send a test mail to mail server to check this account is available or not.
SMTP Port	Set port number of SMTP service.
SSL	Enable SSL function or not.
SMTP Authentication	Select the authentication required when you send an e-mail. Disable: If no authentication is required when an e-mail is send. Enable: If authentication is required when an e-mail is sent.
Authentication U Name	ser Type the user name for the SMTP server if Authentication is Enable.
Authentication Passwo	ord Type the password for the SMTP server if Authentication is Enable.
E-mail From	Type the sender's E-mail address. This address is used for reply e-mails.
E-mail To	Type the receiver's e-mail address.
E-mail Subject	Type the subject/title of the e-mail.



6.8. Object Detection

Use this menu to specify motion detection window 1 to window 4 and set the conditions for detection while observing a captured image.



Add and Delete	To add or delete the motion windows. User can specify up to 4 Included and/or Excluded windows to monitor the video captured by this device. By dragging mouse on the image, you can change the position and size of the selected motion window accordingly.
Included or Excluded Window	These windows can be specified as Included or Excluded type. Included: Windows target specific areas within the whole video image Excluded: Windows define areas within an Include window that should be ignored (areas outside Include windows are automatically ignored)
Name	Name of the specified motion window.
Object Size	Defines the object size of motion detection. The higher object size will only larger objects trigger motion detection. The lower object size will even small objects trigger motion detection too. Generally speaking, the smaller size will be easier to trigger event.
Sensitivity	Defines the sensitivity value of motion detection. The higher value will be more sensitivity.





6.9. Storage Configuration

This page shows the status of attached SD card and Samba server. You may setup related parameters to manage the attached SD card or Samba server also.

6.9.1. SD Card

SD Card SAM	/IBA Server			
Disk ID	00 D10%	Mount Unmoun		
	SD_DISK	Mount Onmoun		
Status	Free space	57% - 1126844KB	Reload Format	
	Total size	1966080 KB		
	Status	ок		
	Full	No		
	Readonly	No		
Enable	e automatic disk cleanup			
Remov	ve recordings older than:	7 day(s)		
Remov	ve oldest recordings whe	n disk is: <mark>95 </mark> % full		
Lock d	lisk			

Enable automatic disk cleanup	Delete old recorded files while the conditions are reached as below.
Remove recordings order than	Delete old files by days.

Remove oldest recordings when disk is	Delete old files by left capacity.

Lock disk Lock the SD card. Once SD card is locked, all files can't be deleted.



6.9.2. SAMBA Server

This page shows the status of SAMÓA server. You may setup related parameters to manage the remote SAMBA server.

SD Care	d S/	AMBA Server		
Но	ost		192.168.0.201	(1 ~ 63 Digits)
Sh	are		share	(1 ~ 63 Digits)
Us	ser Name		test	(< 63 Digits)
Pa	assword			(< 63 Digits)
Sta	atus		Online	
	tal size		13.34 GB	
	ee space AMBA Se		59% - 7.88 GB Unmount	
			Connount	

Host	Type the SAMBA server domain name or the IP address of the SMTP server.
Share	Type the share folder of remote SAMBA server which the camera will upload files to this space.
User name	Delete old files by left capacity.
Password	Type the password for the remote SAMBA server.



6.10. Continuous Recording

The camera can continuously record video stream into files and save them to attached SD card or remote SAMBA server.

Continuous Recording	
Continuous Recording	Disable Enable
Record File Type	Profile1 h264 / 1080p 😽
Disk	SD Card SAMBA Server
Path	PLANET-00304FA22E5F (For example: Folder1/Folder2/Folder3) (1 ~ 63 Digits)
Restart (Restarting wi	II delete the current recording.)
Oldest recordings will be	removed if the disk is 90% full and free space is smaller than 1GB.
	Enable or disable this function.
Continuous Recording	
Record File Type	Choose a video profile to record.

DISK	Save recorded files to SD card or remote SAMBA server.
Path	Define the folder path for the recorded files.
Restart	Be careful, click this button will delete all continuous files

recorded in SD card or remote SAMBA server.

6.11. Recording List

6.11.1. Recording List

This page only shows the event recording files which stored in SD card. User may play or delete the selected file.



Date	File	Trigger by	Size	
20120329	20120326_113301.avi	motion00ccur	2004 KB	
20120330	20120326_115716.avi	motion00ccur	2068 KB	
20120326	20120326_115732.avi	motion00ccur	2081 KB	
	20120326_115740.avi	motion00ccur	2067 KB	
	20120326_115749.avi	motion00ccur	2093 KB	
	20120326_115755.avi	motion00ccur	2059 KB	
	20120326_115932.avi	motion00ccur	2057 KB	
	20120326_115943.avi	motion00ccur	2056 KB	
	20120326_115951.avi	motion00ccur	2090 KB	
	20120326_121234.avi	motion00ccur	2074 KB	
	20120326_121329.avi	motion00ccur	2067 KB	
	20120326_121411.avi	motion00ccur	2056 KB	
Reload		Play Rem	ove	

6.11.2. Continuous Recording List

This page only shows the continuous recording files which stored in SD card or remote SAMBA server. User may play or delete the selected file.

Disk: SD Card Path: PLANET-0030	4FA22E5F		
Date	File	Trigger by Sise	
20120326	20120326_113156.avi	continuous 15506 KB	
	20120326_113656.avi	continuous 17931 KB	
	20120326_114156.avi	continuous 19834 KB	
	20120326_114657.avi	continuous 19608 KB	
	20120326_115157.avi	continuous 19150 KB	
	20120326_115659.avi	continuous 50094 KB	
	20120326_120200.avi	continuous 20253 KB	
	20120326_120701.avi	continuous 19704 KB	
	20120326_121201.avi	continuous 27162 KB	
Reload		Play Remove	



6.12. Event Server Configuration

6.12.1. FTP Server

You may setup FTP parameters for further operation of Event Schedule. That's, if users want to send the alarm message to an FTP server, it will need to configure parameters here and also add at least one event schedule to enable event triggering as SMTP.

lame	F	TP Server	FTP Port	FTP Path	
тр	19	2.168.0.174	21	/anthony/test	
ame		FTP	(< 2	2 Digits)	
P Server		192.168	.0.174 (< 6	5 Digits) Test	
'P Login Name		admin	(< 2	2 Digits)	
P Login Pass	word	•••••	(< 2	2 Digits)	
'P Port		21	(1 ~	65535)	
TP Path		/admin/t	test (< 6	5 Digits)	
FTP Passive Mode		📀 Disa	🛇 Disable 🎐 Enable		

Name	User can specify multiple FTP paths as wish. Therefore, user needs to specify a name for each FTP setting.
FTP Server	Type the server name or the IP address of the FTP server.
Test	Check the FTP server whether this account is available or not.
FTP Login name	Type the user name for the FTP server.
FTP Login Password	Type the password for the FTP server.
FTP Port	Set port number of FTP service.
FTP Path	Set working directory path of FTP server.
FTP Passive Mode	Select passive or active mode connecting to FTP server.





6.12.2. TCP Server

In addition to send video file to FTP server, the device also can send event message to specified TCP server.

FTP Server TCP Server	HTTP Server SAMBA Serve	r
Name	TCP Server TC	P Port
Name	(< 22 Digits)	
TCP Server	(< 65 Digits)	lest
TCP Port	(1 ~ 65535)	

Name	User can specify multiple TCP servers as wish. Therefore, user needs to specify a name for each TCP server setting.
TCP Server	Type the server name or the IP address of the TCP server.
TCP Port	Set port number of TCP server.



6.12.3. HTTP Server

The device also can send event message to specified HTTP server.

Name	HTTP Server	Proxy Address	
Name		(< 22 Digits)	
URL	http://	(< 129 Digits)	
HTTP Login Name		(< 22 Digits)	
HTTP Login Password		(< 22 Digits)	
Proxy Address		(< 129 Digits)	
Proxy Login Name		(< 22 Digits)	
Proxy Login Password		(< 22 Digits)	
Proxy Port		(1 ~ 65535)	

Name	User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.
URL	Type the server name or the IP address of the HTTP server.
Test	Check the HTTP server whether it is available or not.
HTTP Login name	Type the user name for the HTTP server.
HTTP Login Password	Type the password for the HTTP server.
Proxy Address	Type the server name or the IP address of the HTTP Proxy.
Proxy Login name	Type the user name for the HTTP Proxy.
Proxy Login Password	Type the password for the HTTP Proxy.
Proxy Port	Set port number of Proxy.



6.12.4. SAMBA Server

The device also can send video stream to specified SAMBA server. Most of the time, the SAMBA server will be another PC or NAS server.

SAMBA Server 192.168.0.201 (< 65 Digits) SAMBA Login Name test (< 22 Digits) SAMBA Login Password (< 22 Digits)	Name samba (< 22 Digits) SAMBA Server 192.168.0.201 (< 65 Digits) Test SAMBA Login Name test (< 22 Digits) SAMBA Login Password ecceded (< 22 Digits)	samba				
SAMBA Server 192.168.0.201 (< 65 Digits) Test SAMBA Login Name test (< 22 Digits) SAMBA Login Password ••••••• (< 22 Digits)	SAMBA Server 192.168.0.201 (< 65 Digits) Test SAMBA Login Name test (< 22 Digits) SAMBA Login Password ••••••• (< 22 Digits)		192.160.0.201	Share		
SAMBA Server 192.168.0.201 (< 65 Digits) Test SAMBA Login Name test (< 22 Digits) SAMBA Login Password ••••••• (< 22 Digits)	SAMBA Server 192.168.0.201 (< 65 Digits) Test SAMBA Login Name test (< 22 Digits) SAMBA Login Password ••••••• (< 22 Digits)					
SAMBA Login Name test (< 22 Digits) SAMBA Login Password (< 22 Digits)	SAMBA Login Name test (< 22 Digits) SAMBA Login Password (< 22 Digits)	lame	53			
SAMBA Login Password (< 22 Digits)	SAMBA Login Password (< 22 Digits)	AMBA Server	19	92.168.0.201	(< 65 Digits) Test	
		AMBA Login Name	te	st	(< 22 Digits)	
SAMBA Path share (< 65 Digits)	SAMBA Path share (< 65 Digits)	AMBA Login Password	••	••••	(< 22 Digits)	
		AMBA Path	st	are	(< 65 Digits)	

Name	User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.
SAMBA Server	Type the server name or the IP address of the SAMBA server.
Test	Check the SAMBA server whether this account is available or not.
SAMBA Login name	Type the user name for the SAMBA server.
SAMBA Login Password	Type the password for the SAMBA server.
SAMBA Path	Set working directory path of SAMBA server.





6.13. Event Schedule Configuration

This menu is used to specify the schedule of Event or Schedule Trigger and activate the some actions provided by this device. Where the Schedule Trigger will be activated by user-define interval without event happened.

Setting Record	Port Status			
Name	Enable Type Weekday Start Duration Trigger by Prefix Action			
Name				
Enable	◊ Yes No			
Туре	Event Trigger Schedule Trigger, Interval 60 (Seconds)			
Enable Time	✓ Sun ✓ Mon ✓ Tue ✓ Wed ✓ Tri ✓ Sat Start from 0 ✓ 0 ✓ ((max 168:00 hours))			
Trigger by	Sensor Change to active			
Record File Prefix	(0 ~ 20 Digits)			
	I Go ♥ Preset ♥ ● Tour 😢			
	Voice Alert, Duration 5 (0~86400 Seconds)			
	Alarm Out, Duration 5 (0~86400 Seconds)			
	Send FTP			
Action	Send TCP 💙			
Action				

Name	Name of the Event or Schedule.
Enable	Enable or disable this Event or Schedule.
Туре	Schedule start with Event trigger or Schedule trigger.
Enable Time	Define the feasible time slot.
Trigger by	Select the triggered sources with event trigger.
Record File Prefix	Define the prefix of recorded filename
Action	Define the actions once event triggered.



Example1.

Send file to FTP server by motion triggered always:

Step 1 Select event trigger

Step 2 Enable time: start from 00:00 to 24:00 every day

Step 3 Trigger by: Motion Area (Added in Object Detection page)

Step 4 Action: Send FTP (Add in Event Server -> FTP Server page)

Setting	Record	Port	Status						
			_						
Name		Enable		Weekday			Trigger by Prefix		1
Send to FT	P	yes	Event	1111111	0:0	24:0	x,M0,x	FTP	
Name		Sei	nd to FTP						
Enable		•	O Yes ● No						
Туре		۰	Event Trigger Schedule Trigger, Interval 60 (Seconds)						
Enable Time	bla Time Sun ☑ Mon ☑ Tue ☑ Wed ☑ Thu ☑ Fri ☑ Sat								
Start from 0 V 0 V, Duration 24 V 0 V ((max 168:00 hours))									
Trigger by				hange to act		<u>~</u>			
		V	Motion Are	ea DefaultWi	indow 👻				
Record File P	refix			(0 ~ 20 Dig	jits)			
			Go 💿 Pres	set 💌 🔍 To	ur 🗠				
			Voice Aler	t, Duration	(0)~86400 Sec	onds)		
			Alarm Out		(0	~86400 Seco	nds)		
			Send FTP	FTP 🗸					
Action			Send TCP	*					



Example2.

Send file to E-Mail server by motion triggered from Friday 18:00 to Saturday 06:00

Step 1 Select event trigger.

Step 2 Enable time: start from Friday 18:00 and keep work in 12 hours, so it will stop on Saturday 06:00.

Step 3 Trigger by: Motion Area (Added in Object Detection page)

Step 4 Action: Send e-mail (Add in E-Mail page)

- i. To email address: You need to input the receiver email address.
- ii. Subject: You could specify the email subject.
- iii. Message: You could specify the email content.

Setting Recor	I Port Status							
Name	Enable Type	Weekday	Start Duration	Trigger by Prefix	Action			
Send to E-mail	yes Event	0000010	18:0 12:0	x,M0,x	SMTP			
Name	Send to E-mail							
	Send to E-mail							
Enable	🔍 Yes 🌑 No							
Туре	Event Trigger	Schedule Trig	gger, Interval <mark>60</mark>	(Seconds)				
	Sun Mon	Tue Wed	Thu 🗹 Fri 📕 Sat					
shable Time Start from 18 V 0 V, Duration 12 V 0 V ((max 168:00 hours))								
	Sensor Chan	Sensor Change to active						
Trigger by	Motion Area	DefaultWindow	· 💌					
Record File Prefix		(0 ~ 20 Digi	ts)					
	Go O Preset	🔽 🔍 Tour						
	Voice Alert, Du		(0~86400 Seconds)					
	📕 Alarm Out, Dur	ation (0~86400 Seconds)					
	Send FTP	V						
	Send TCP							
	Send HTTP	1						
	Send E-Mail							



Example3.

Enable Voice Alert every 10-minute during 18:00 to 24:00 from Monday to Friday.

Step 5 Type: Select schedule trigger and interval is 10-minute.

Step 6 Enable Time: Select Monday to Friday, and set start time from 18:00 and keep work in 6 hours.

Step 7 Trigger by: You do not need to choose it, because this will be triggered every minute.

Step 8 Action: Voice Alert.

Setting	Record	Port Sta	tus						
Name		Enable	Туре	Weekday	Start	Duration	Trigger by Prefix	Action	
Triger_V	oice_alert	; yes	Schedule	0111110	18:0	6:0	x,M0,x	VOICE	
Name		Trige	er_Voice_al	ert					
Enable		• Y	es 🔍 No						
Туре		● E	vent Trigge	r 💿 Schedule	e Trigger,	Interval 600	(Seconds)		
Enable Time		🗆 s	Sun 🗹 Mon 🗹 Tue 🗹 Wed 🗹 Thu 🗹 Fri 🔲 Sat						
		Start	Start from 18 💙 0 💙 , Duration 6 💙 0 💙 ((max 168:00 hours))						
		🗆 s	Sensor Change to active 🕑						
Trigger by		N	lotion Area	DefaultWin	ndow 🗸				
Record File	Prefix			(0 ~ 20	Digits)				
		G	o 💿 Preset	🛛 💌 🔍 Tour	•				
		🗹 V	oice Alert, I	Juration 10	(0~86	400 Seconds)		
		A	larm Out, D	uration	(0~864	00 Seconds)			
		🔳 S	end FTP F1	'P 🔽					
Action		S	end TCP	×					
Action		🗆 S	end HTTP	×					
		🔳 S	end E-Mail						



6.14. Record Configuration

User can choose the type of record file for event or schedule application.

Setting Record Port	Status
Record File Type	Profile1 h264 / 1080p 🔽
Record File Prefix	(0 ~ 20 Digits)
Pre Trigger Duration	5 (0 ~ 20 Seconds)
Best Effort Duration	30 (1 ~ 60 Seconds)
Max File Size	3072 (256 ~ 3072 Bytes)
Record File Type	Choose AVI or JPEG file format for record file.
Record File Prefix	Define the prefix of recorded filename.
Due Trianen Dunetien	Define the requirement duration of the element
Pre-Trigger Duration	Define the maximum duration of pre-alarm.
Best Effort Duration	Define the best effort duration of post-alarm.
Max File Size	Define the maximum buffer size of record file.





6.15. Port Status

User can check the status of digital input and output (DIDO).

Setting	Record	Port Status	
	Status): Inactive
Outpu	ut Status	Output	t 0: Inactive

Input Status	Show either inactive or active.
Output Status	Show either inactive or active.



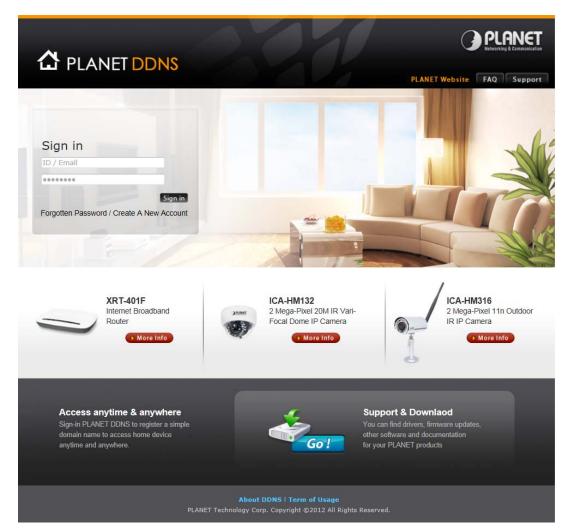
Chapter 7. PLANET DDNS Application

1. Configur e PLANET DDNS steps:

Step 9 Enable DDNS option through accessing web page of ICA-2500.

Step 10 Select on DDNS server provide, and register an account if you do not use yet.

Let's take dyndns.org as an example. Register an account in <u>http://planetddns.com</u>

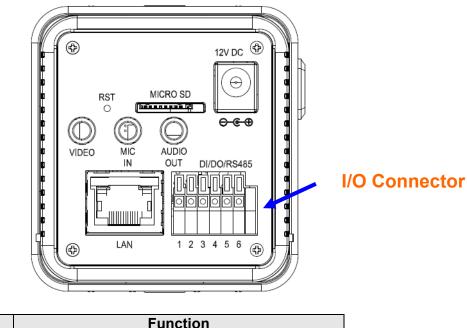




Chapter 8. Alarm I/O Connector

Some features of the Camera can be activated by an external sensor that senses physical changes in the area device is monitoring. These changes can include intrusion detection or certain physical change in the monitored area. For examples, the external sensor can be a door switch or an infrared motion detector. These devices are customer provided, and are available from dealers who carry surveillance and security products. Electrically, they must be able to provide a momentary contact closure.

This device provides a general I/O terminal block with one digital input and one output for device control. Pin 2 and 3 can be connected to an external sensor. The input voltage will be monitored from the initial state 'LOW'. If the external sensor need 12VDC power, then it can connect to Pin1 (50mA maximum). The Alarm Output of pin 3 and 4 can be used to turn on or off the external device. The pin5 and 6 are connected to RS485 interface.

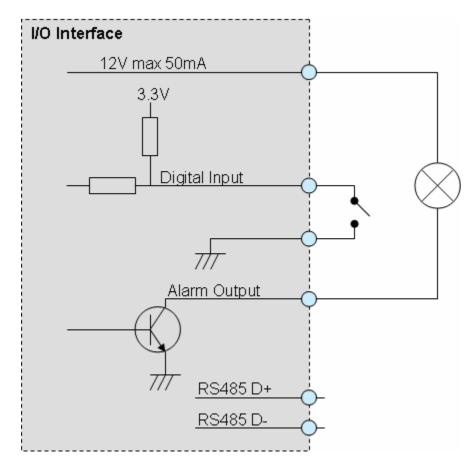


Pin	Function
1	12VDC power supply (50mA maximum)
2	Digital Input
3	GND
4	Alarm Output
5	RS485 data +
6	RS485 data -

User can refer to the schematic below to make a proper connection between I/O connector and external sensor and output device.



Explanation of External I/O Circuit Diagram:



CAUTION!

• THE LOW VOLTAGE/CURRENT CIRCUITS AND HIGH VOLTAGE/ CURRENT CIRCUITS ARE IN THE NETWORK CAMERA CIRCUIT. THE QUALIFIED ELECTRICIAN SHOULD DO THE WIRING NOT BY YOURSELF. INCORRECT WIRING COULD DAMAGE NWTWORK CAMERA. YOU COULD RECEIVE THE FATAL ELECTRIC SHOCK.

• THE EXTERNAL I/O IS NOT CAPABLE OF CONNECTING DIRECTLY TO DEVICES THAT REQUIRE LARGE AMOUNTS OF CURRENT. IN SOME CASES, A CUSTOM INTERFACE CIRCUIT (CUSTOMER PROVIDED) MAY HAVE TO BE USED. SERIOUS DAMAGE TO NETWORK CAMERA MAY RESULT IF A DEVICE IS CONNECTED TO THE EXTERNAL I/O THAT EXCEEDS ITS ELECTRICAL CAPABILITY.



Chapter 9. PING IP Address

The PING (stands for Packet Internet Groper) command is used to detect whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It's also a very useful tool to confirm the device installed or if the IP address conflicts with any other devices over the network.

If you want to make sure the IP address of the device, utilize the PING command as follows:

- Launch a Command Prompt.
- Type ping x.x.x.x, where x.x.x.x is the IP address of the device. For example,

ping 192.168.0.20

The replies, as illustrated below, will provide an explanation to the problem.



If you want to detect any other devices conflicts with the IP address of Network Camera, also can utilize the PING command but you must disconnect the Camera from the network first.



Chapter 10. Bandwidth Estimation

The frame rate of video transmitted from the device depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements for your device.

The required bandwidth depends on content of video source. The slow motion video will produce smaller bit rate generally and fast motion will produce higher bit rate vice versa. Actual results generated by the device may be varying.

Image Resolution	Average range of data sizes for JPEG mode	Average bit rate for MPEG4 mode	Average bit rate for H.264 mode
320 x 240	8 ~ 20k byte per frame	256kbps~768kbps @ 30fps	192kbps~512kbps @ 30fps
640 x 480	20 ~ 50K byte per frame	512kbps~3072kbps @ 30fps	384kbps~1,536kbps @ 30fps
1920 x 1080	200 ~ 500k byte per frame	-	1,536kbps~10,000kbps @ 30fps
2592 x 1944	500 ~ 1300k byte per frame	-	1,800kbps~10,000kbps @ 15fps

Note: Audio streaming also takes bandwidth around 32kbps. Some xDSL/Cable modem upload speeds could not even reach up to 128 kbps. Thus, you may not be able to receive good quality video while also streaming audio on a 128 kbps or lower connection. Even though the upload speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.



Chapter 11. Configure Port Forwarding Manually

The device can be used with a router. If the device wants to be accessed from the WAN, its IP address needs to be setup as fixed IP address, also the port forwarding or Virtual Server function of router needs to be setup. This device supports UPnP traversal function. Therefore, user could use this feature to configure port forwarding of NAT router first. However, if user needs to configure port forwarding manually, please follow the steps as below:

Manually installing the device with a router on your network is an easy 3-step procedure as following:

- 1. Assign a local/fixed IP address to your device
- 2. Access the Router with Your Web browser
- 3. Open/Configure Virtual Server Ports of Your Router

1. Assign a local/fixed IP address to your device

The device must be assigned a local and fixed IP Address that allows it to be recognized by the router. Manually setup the device with a fixed IP address, for example, *192.168.0.100*.

2. Access the Router with Your Web browser

The following steps generally apply to any router that you have on your network. The PLANET WNRT-620 is used as an example to clarify the configuration process. Configure the initial settings of the router by following the steps outlined in the router's **Quick Installation Guide**.

If you have cable or DSL service, you will most likely have a dynamically assigned WAN IP Address. 'Dynamic' means that your router's WAN IP address can change from time to time depending on your ISP. A dynamic WAN IP Address identifies your router on the public network and allows it to access the Internet. To find out what your router's WAN IP Address is, go to the **Status** screen on your router and locate the WAN information for your router. As shown on the following page the WAN IP Address will be listed. This will be the address that you will need to type in your web browser to view your camera over the Internet. Be sure to uncheck the **Reset IP address at next boot** button at the top of the screen after modifying the IP address. Failure to do so will reset the IP address when you restart your computer.



PLANET	Hems General Serue Status Tecl Internet Broadband Router
Current Time	Internet Connection View the current internet connection status and related information. Attain IP Protocol : Cynamic IP disconnect IP Address : Submet Mask : Default Gateway : 0.0.0.0 MAC Address : 0.0.11 Primary DNS : Secondary DNS :

Your WAN IP Address will be listed here.

3. Open/set Virtual Server Ports to enable remote image viewing

The firewall security features built into the router and most routers prevent users from accessing the video from the device over the Internet. The router connects to the Internet over a series of numbered ports. The ports normally used by the device are blocked from access over the Internet. Therefore, these ports need to be made accessible over the Internet. This is accomplished using the **Virtual Server** function on the router. The Virtual Server ports used by the camera must be opened through the router for remote access to your camera.

Follow these steps to configure your router's Virtual Server settings

- Click Enabled.
- Enter a unique name for each entry.
- Select Both under Protocol Type (TCP and UDP)
- Enter your camera's local IP Address (e.g., **192.168.0.100**, for example) in the **Private IP** field.
- If you are using the default camera port settings, enter **80** into the **Public** and **Private Port** section, click **Add**.

A check mark appearing before the entry name will indicate that the ports are enabled.



NOTE Some ISPs block access to port 80. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the port the camera uses from 80 to something else, such as 8080. Not all routers are the same, so refer to your user manual for specific instructions on how to open ports.

	Home General Setup Status Tool Internet Broadband Router
 System WAN LAN Wireless QoS NAT Port Forwarding Mirtual Server Special applications UPAP Setting ALG Settings Firewall 	Vitual Server ① Succession of side via Boadband router as a Vitual Server so that remote users accessing services such as the Web of TP stop volcal side via Public IP Addresses can be automatically redirected to local servers configured with Private Prosesses in other words, depending on the requested service (CCPUDP) por numeric the Broadband router reduces as a vicual service (CCPUDP) por numeric the Broadband router reduces as a vicual service request to the appropriate internal service (CCPUDP) por numeric the Broadband router reduces as a vicual service request to the appropriate internal service (CCPUDP) por numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (CCPUDP) on numeric the Broadband router reduces as a vicual service (C

Enter valid ports in the **Virtual Server** section of your router. Please make sure to check the box on this line to enable settings. Then the device can be access from WAN by the router's WAN IP Address.

By now, you have finished your entire PC configuration for this device.



Chapter 12. Power Line Frequency

COUNTRY	VOLTAGE	FREQUENCY	COMMENTS
Argentina	220V	50 Hz	*Neutral and line wires are reversed from that used in Australia and elsewhere.
Australia	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though <i>nominal</i> voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
Austria	230V	50 Hz	
Brazil	110/220V*	60 Hz	*127V found in states of Bahia, Paran?(including Curitiba), Rio de Janeiro, S 緌 Paulo and Minas Gerais (though 220V may be found in some hotels). Other areas are 220V only, with the exception of Fortaleza (240V).
Canada	120V	60 Hz	
China, People's Republic of	220V	50 Hz	
Finland	230V	50 Hz	
France	230V	50 Hz	
Germany	230V	50 Hz	
Hong Kong	220V*	50 Hz	
India	230V	50 Hz	
Italy	230V	50 Hz	
Japan	100V	50/60 Hz*	*Eastern Japan 50 Hz (Tokyo, Kawasaki, Sapporo, Yokohoma, and Sendai); Western Japan 60 Hz (Osaka, Kyoto, Nagoya, Hiroshima)
Malaysia	240V	50 Hz	
Netherlands	230V	50 Hz	
Portugal	230V	50 Hz	
Spain	230V	50 Hz	
Sweden	230V	50 Hz	
Switzerland	230V	50 Hz	
Taiwan	110V	60 Hz	
Thailand	220V	50 Hz	
United Kingdom	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though <i>nominal</i> voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
United States of America	120V	60 Hz	



Chapter 13. 3GPP

To use the 3GPP function, in addition to previous section, you might need more information or configuration to make this function work.

Note: that to use the 3GPP fu nction, it strongly recommends to install the Networked Device with a public and fixed IP add ress without any firewall protection.

RTSP Port:

Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number for some reasons. If so, user needs to change this port accordingly.

Dialing procedure:

- 1. Choose a verified player (PacketVideo or Realplayer currently)
- 2. Use the following URL to access:

rtsp://*host*/mpeg4/media.3gp

Where *host* is the host name or IP address of the camera.

Compatible 3G mobile phone:

Please contact your dealer to get the approved list of compatible 3G phone.



Chapter 14. Troubleshooting & Frequently Asked

Questions

Question	Answer or Resolution		
Features			
The video and audio codec is adopted in the device.	The device utilizes H.264, MPEG4 and JPEG triple compression to providing high quality images. Where H.264 and MPEG4 are standards for video compression and JPEG is a standard for image compression. The audio codec is defined as G.711/G.726 for RTSP streaming.		
The maximum number of users accesses the device simultaneously.	The maximum number of users is limited to 20. However, it also depends on the total bandwidth accessed to this device from clients. The maximum data throughput of the device is around 100~200Mbps for UDP mode and 50Mbps for HTTP mode. Therefore, the actual number of connected clients is varying by streaming mode, settings of resolution, codec type, frame rate and bandwidth. Obviously, the performance of the each connected client will slow down when many users are logged on.		
The device can be used outdoors or not.	The device is weatherproof.		
	Install this device		
Status LED does not light up.	 Check and confirm that the DC power adaptor, included in packaged, is used. Secure the power connector and re-power it on again. If the problem is not solved, the device might be faulty. Contact your dealer for further help. 		
The network cabling is required for the device. The device will be installed and work if a firewall exists on the	The device uses Category 5 or better UTP cable allowing 10 Base-T, 100 Base-TX, or 1000 Base-T networking. If a firewall exists on the network, port 80 is open for ordinary data communication. The HTTP port and RTSP port need to be opened on the firewall or NAT router.		
network. The username and	Username = admin and Password = admin . Note that it's all case sensitivity.		
Forgot the username and password	 Follow the steps below. 1. Restore the factory default setting by pressing and holding down more than 5 seconds on the device. 2. Reconfigure the device. 		
Forgot the IP address of the device.	Check IP address of device by using the PLANET IPWizard II program or by UPnP discovery.		



<u></u>	
PLANET IPWizard II program cannot find the device. Internet Explorer does not seem to work well with the device	 Re-power the device if cannot find the unit within 1 minutes. Do not connect device over a router. IPWizard II program cannot detect device over a router. If IP address is not assigned to the PC which running IPWizard II program, then IPWizard II program cannot find device. Make sure that IP address is assigned to the PC properly. Antivirus software on the PC might interfere with the setup program. Disable the firewall of the antivirus software during setting up this device. Check the firewall setting of your PC or Notebook. Make sure that your Internet Explorer is version 6.0 or later. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft webpage.
PLANET IPWizard II program fails to save the network parameters.	 Network may have trouble. Confirm the parameters and connections of the device.
	UPnP NAT Traversal
Cannot work with NAT router	 Maybe NAT router does not support UPnP function. Please check user's manual of router and turn on UPnP function. Maybe UPnP function of NAT router is not compatible to the IP camera. Please contact your dealer to get the approval routers list.
Some IP cameras are working but others are failed	• Maybe too many IP cameras have been installed on the LAN, and then NAT router is out of resource to support more cameras. You could turn off and on NAT router to clear out of date information inside router.
	Access this device
Cannot access the login page and other web pages of the Network Camera from Internet Explorer	 Maybe the IP Address of the Network Camera is already being used by another device or computer. To confirm this possible problem, disconnect the Network Camera from the network first, and then run the PING utility to check it out. May be due to the network cable. Try correcting your network cable and configuration. Test the network interface by connecting a local computer to the Network Camera via a crossover cable. Make sure the Internet connection and setting is ok. Make sure enter the IP address of Internet Explorer is correct. If the Network Camera has a dynamic address, it may have changed since you last checked it. Network congestion may prevent the web page appearing quickly. Wait for a while. The IP address and Subnet Mask of the PC and Network Camera must be in the same class of the private IP address on the LAN. Make sure the http port used by the Network Camera, default=80, is forward to the Network Camera's private IP



	 address. The port number assigned in your Network Camera might not be available via Internet. Check your ISP for available port. The proxy server may prevent you from connecting directly to the Network Camera, set up not to use the proxy server. Confirm that Default Gateway address is correct. The router needs Port Forwarding feature. Refer to your router's manual for details. Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details. Access the Network Camera from the Internet with the global IP address of the router and port number of Network Camera. Some routers reject the global IP address to access the Network Camera on the same LAN. Access with the private IP address and correct port number of Network Camera. When you use DDNS, you need to set Default Gateway and DNS server address. If it's not working after above procedure, reset Network Camera to default setting and installed it again. If the problem is not solved, the Network Camera might be faulty. Contact your dealer for further help.
Image or video does not	• The first time the PC connects to Network Camera, a pop-up
appear in the main page.	 Security Warning window will appear to download ActiveX Controls. When using Windows XP, or Vista, log on with an appropriate account that is authorized to install applications. Network congestion may prevent the Image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.
Check the device's ActiveX is installed on your computer	Go to C:\Windows\Downloaded Program Files and check to see if there is an entry for the file " IPCamera Control ". The status column should show "Installed". If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the device's home page. Most likely, the ActiveX control did not download and install correctly. Check your Internet Explorer security settings and then close and restart Internet Explorer. Try to browse and log in again.
Internet Explorer displays the following message: "Your current security settings prohibit downloading ActiveX controls".	Setup the IE security settings or configure the individual settings to allow downloading and scripting of ActiveX controls.
The device work locally but not externally.	 Might be caused from the firewall protection. Check the Internet firewall with your system or network administrator. The firewall may need to have some settings changed in order for the device to be accessible outside your LAN. Make sure that the device isn't conflicting with any other web



 server running on your LAN. Check the configuration of the router settings allow the device to be accessed outside your local LAN. 		
Check the bandwidth of Internet connection. If the Internet connection.	ot	
bandwidth is lower than target bit rate, the video streaming		
not work correctly.	J WIII	
The unreadable Use the operating system of the selected language. Set the	10	
characters are Encoding or the Character Set of the selected language of		
displayed. the Internet Explorer.	11	
Frame rate is slower • The traffic of the network and the object of the image aff		
than the setting. the frame rate. The network and the object of the image and the setting.		
slower than the setting.	,	
 Check the bandwidth of Internet connection. If the Internet 	et	
bandwidth is lower than target bit rate, the video streaming	a will	
not work correctly.	-	
 Ethernet switching hub can smooth the frame rate. 		
Blank screen or very • Your connection to the device does not have enough		
slow video when audio is bandwidth to support a higher frame rate for the streamed	ł	
enabled. image size. Try reducing the video streaming size to 160		
or 320x240 and/or disabling audio.		
 Audio will consume 32 kbps. Disable audio to improve v 	deo.	
Your Internet connection may not have enough bandwidt	ו to	
support streaming audio from the device.		
Image Transfer on e-mail • Default Gateway and DNS server address should be se	t up	
or FTP does not work. correctly.		
• If FTP does not work properly, ask your ISP or network		
administrator about the transferring mode of FTP server.		
Pan/Tilt does not work. • Click [Refresh] on the Internet Explorer when the		
(including Click to Center communication stops with the device. The image will refre	∍sh.	
and Preset Positioning) • Other clients may be operating Pan/Tilt.		
Pan/Tilt operation has reached the end of corner.		
Pan/Tilt does not work There may be a slight delay when you are using the Pan/		
smoothly. feature in conjunction with streaming audio and video. If y		
find that there is a significant delay while panning or tilting		
camera, try disabling the audio streaming and/or reducing	, the	
video streaming size.		
Video quality of the device		
The focus on the • The lens is dirty or dust is attached. Fingerprints, dust, s	tain,	
Camera is bad. etc. on the lens can degrade the image quality.		
The color of the image is • Adjust White Balance.		
• To insure the images you are viewing are the best they		
be, set the Display property setting (color quality) to 16bit		
least and 24 bit or higher if possible within your computer		
 The configuration on the device image display is incorrect 		
You need to adjust the image related parameters such as		
brightness, contrast, hue and sharpness properly.		
Image flickers. • Wrong power line frequency makes images flicker. Make	Э	



	around the Camera brighter.	
Noisy images occur.	The video images might be noisy if the device is located in a very low light environment. Make the condition around the camera brighter or turn the IR LED on.	
Miscellaneous		
Cannot play the recorded ASF file	Have installed Microsoft's DirectX 9.0 or later and use the Windows Media Player 11.0 or later to play the AVI filed recorded by the Device.	